

**AMENDMENTS TO THE SPECIFICATION:**

Please amend the paragraph beginning at page , line , as follows:

Please add the following headings at page 1, before line 1 and after the title:

**BACKGROUND**

1. Technical Field

Please add the following heading at page 1, at line 5 as follows:

2. Related Art

Please add the following at page 2, line 28:

**BRIEF SUMMARY**

Please add the following equation at page 3, line 27:

$$\begin{aligned}\alpha_m &= W_N^{m^2/2 - qm} & N \text{ even} \\ &= W_N^{m(m+1)/2 + qm} & N \text{ odd}\end{aligned}$$

Please add the following at page 3, bottom page after "where"

$$W_N = e^{-i2\pi / N}$$

Please add the following at page 4a, after line 10:

$$\begin{aligned}\alpha_m &= W_N^{m^2/2 + qm} & N \text{ even} \\ &= W_N^{m(m+1)/2 + qm} & N \text{ odd}\end{aligned}$$

Please add the following at page 4a, after the word "equation"

$$W_N = e^{-i2\pi / N}$$

Please add the following at page 5, between lines 11 and 12:

**BRIEF DESCRIPTION OF THE DRAWINGS**

Please change the title at page 12, before claim 1 as follows:

~~CLAIMS~~ WHAT IS CLAIMED IS: